

# HAKAN OKAY

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## SUMMARY

Software Engineer specializing in the design and implementation of web applications and services. Experienced in frontend and backend development, machine learning, and data processing. Previously worked at a VC-backed SaaS startup and multiple short and long-term contract roles across various industries. Fluent in Golang, Python, TypeScript, and SQL, with proficiency in Java.

## EXPERIENCE

**Software Engineer** September 2023 - Present  
TwinsMusic Enterprises Ottawa, ON

- Developed a new version of an online, subscription-based music library, resulting in a 20% increase in user engagement.
- Optimized database queries and improved system performance by 40% through refactoring and performance tuning.
- Introduced a new parallelized testing framework for unit and integration tests, reducing execution times by 50%.
- Mentored junior developers in best practices and system design, and did code reviews and weekly one-on-one sessions.

**Software Engineer** February 2023 - September 2023  
Self-employed @ [hakanokay.dev](https://hakanokay.dev) Ottawa, ON

- Optimized ETL processes of a marketing firm, reducing execution times by 25% and saving over \$100,000 annually.
- Used machine learning to personalize ads for an e-commerce with ~4700 monthly users, boosting revenue by 15%.
- Developed a service for managing and testing machine learning models, allowing faster integrations on new models.
- Designed and built a web application to manage and track sales of an online business, reducing processing times by 30%.

**Software Engineer** March 2022 - February 2023  
Bruin Ottawa, ON

- Added new features to a CLI performing data processing on the platform, reducing pipeline development times by 30%.
- Optimized an API generating analytics reports, integrated more KPIs and improved response times by 15%.
- Debugged the parser of an Airflow pipeline generation and management tool, and increased the test coverage by 10%.
- Automated data modelling for apps with similar characteristics through templating, allowing faster onboarding.
- Built and managed ETL pipelines processing terabytes of data daily, generated from 10 clients across 35 mobile apps.

## SKILLS

**Languages:** Golang, Python, TypeScript, SQL

**Frameworks:** React, Next.js, Tailwind

**Tools:** Linux, Git, Docker, GCP

**Databases:** MySQL, PostgreSQL, MongoDB

**Familiar with:** Java, Airflow, React Native, Expo

## PROJECTS

**Quill:** Chat with your PDF files.

TypeScript, React, Next.js, Tailwind, tRPC, Pinecone, Stripe  
Live at [quill.hakanokay.dev](https://quill.hakanokay.dev)

**WorldMaker:** Create cities in your browser.

JavaScript, Canvas API, Data Structures (mainly Graphs)  
Live at [selfdriving.hakanokay.dev](https://selfdriving.hakanokay.dev)

## EDUCATION

**Algonquin College** September 2022 - February 2024  
Diploma in Computer Programming | Honours Ottawa, ON

**Miul & Data Science Academy** December 2021 - March 2022  
Certificate of Data Science and Machine Learning Izmir, Turkey

**Akdeniz University** September 2014 - September 2019  
Bachelor of Science in Engineering Antalya, Turkey